

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2011 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin***

<b>RD0017</b>	Overall LMA Rating	Total LMA Miles				
<b>Reclamation District No. 0017 Mossdale</b>	<b>A</b>	<b>16.24</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.03		0.03	0.19%		
Trim / Thin Trees	0.05		0.05	0.31%		
Encroachments	0.01		0.01	0.06%		0.32
<i>LMA Totals:</i>	0.09	0.00	0.09	0.55%	0.00	0.32

  

<b>Unit No. 01 French Camp Slough LB</b>	Overall Unit Rating	Total Unit Miles				
<b>RD0017</b>	<b>A</b>	<b>1.79</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
No Items						
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.00	0.00

  

<b>Unit No. 02 San Joaquin River RB</b>	Overall Unit Rating	Total Unit Miles				
<b>RD0017</b>	<b>A</b>	<b>14.45</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.03		0.03	0.21%		
Trim / Thin Trees	0.05		0.05	0.35%		
Encroachments	0.01		0.01	0.07%		0.32
<i>Unit Totals:</i>	0.09	0.00	0.09	0.62%	0.00	0.32

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2011 Levee Inspection Results**

**Reclamation District No. 0017 Mossdale**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 0017 Mossdale**

Waterway			Bank	Unit Miles
Unit No. 01 French Camp Slough			Left	1.79
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	4/12/2011 - 4/12/2011		10/24/2011 - 10/24/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Robert Winter KSN Engineering		Robert Winter KSN Engineering	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0017 Mossdale**

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough					Left	1.79	10/24/2011 10/24/2011	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	1.79	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	°	°	7
								°	°	Y

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
U : Unacceptable      W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.79	10/24/2011 10/24/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.79
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking north a at typical view of levee.

richard\_f\_20111205\_477.jpg



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.79
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking north at well maintained trees on waterside of levee.

richard\_f\_20111205\_478.jpg



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.79
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking south at well maintained trees and levee slope.

richard\_f\_20111205\_479.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 0017 Mossdale**

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River			Right	14.45
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	4/14/2011 - 4/14/2011		10/24/2011 - 10/24/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Robert Winter KSN Engineering		Robert Winter KSN Engineering	

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- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

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**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0017 Mossdale**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River						Right	14.45	10/24/2011 10/24/2011	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.07	0.07	Earthen Levee	Animal Control	LS	W	Exterminate rodents and backfill and compact or grout burrows.	37.915161 ° -121.321595 °	37.915161 ° -121.321595 °	7
2	0.46	0.46	Earthen Levee	Animal Control	LS	W	Exterminate rodents and backfill and compact or grout burrows.	37.910190 ° -121.324424 °	37.910190 ° -121.324424 °	8
3	0.68	0.69	Supplemental	DWR Erosion Survey	WS	C	Inspector Comments: 08/23/2011: Repaired site shows no new signs of erosion. Vegetation and dead trees visible on the site. 9/07/2010: Site appears to have been repaired by using shot rock as revetment along the lower slope. There are some emergent vegetation at the water line. Site was previously rated "M". 9/29/2009: Undercutting of the toe just above the existing rip rap; note there is housing development on the landside of levee (refer to Aerial Atlas). [2011 Site ID:RD0017U02RM43.95]	37.907119 ° -121.324224 °	37.907119 ° -121.324224 °	5
4	2.89	2.89	Supplemental	DWR Erosion Survey	WS	C	Inspector Comments: 08/23/2011: The repaired site shows no sign of new erosion activity. Vegetation visible on the site. 9/07/2010: Site has been repaired. Shot rock was placed on site. Site was previously rated "M". 9/29/2009: Pocket erosion just below and across the abutment of Howard Road Bridge; existing toe rip rap and concrete slabs in place; erosion may develop into a larger pocket erosion if no corrective action is taken. [2011 Site ID:RD0017U02RM46.13]	37.878234 ° -121.331693 °	37.878234 ° -121.331693 °	6
5	4.24	4.27	Earthen Levee	Encroachments	LS	CO	Landscaping	37.863819 ° -121.320784 °	37.863601 ° -121.320299 °	48
6	4.28	4.32	Earthen Levee	Encroachments	LS	CO	Crops	37.863582 ° -121.320230 °	37.862947 ° -121.319812 °	11 Y
7	4.42	4.44	Earthen Levee	Encroachments	LS	CO	Landscaping	37.861673 ° -121.320115 °	37.861370 ° -121.320102 °	1 Y
8	4.46	4.46	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.861223 ° -121.319957 °	37.861223 ° -121.319957 °	2
9	5.01	5.01	Earthen Levee	Encroachments	LS	M	Prunings	37.855343 ° -121.319845 °	37.855343 ° -121.319845 °	3
10	5.55	5.55	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees over roadway to at least 12 feet above ground level.	37.850652 ° -121.320498 °	37.850652 ° -121.320498 °	568
11	5.58	5.58	Earthen Levee	Animal Control	LS	W	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.850118 ° -121.320188 °	37.850118 ° -121.320188 °	76
12	5.62	5.85	Earthen Levee	Encroachments	LS	CO	Landscaping	37.849472 ° -121.320159 °	37.848582 ° -121.323647 °	54 Y
13	5.77	5.77	Earthen Levee	Vegetation	WS	W	Elderberries are blocking visibility and flood fight capability.	37.849267 ° -121.322590 °	37.849267 ° -121.322590 °	19

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0017 Mossdale**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 San Joaquin River						Right	14.45	10/24/2011 10/24/2011	Richard Willoughby	
LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
14	7.51	7.51	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.830350 ° -121.310880 °	37.830350 ° -121.310880 °	4
15	7.67	7.69	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.828095 ° -121.309945 °	37.827920 ° -121.309847 °	25 Y
16	9.40	9.40	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.815243 ° -121.317470 °	37.815243 ° -121.317470 °	9
17	9.49	9.49	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	37.815658 ° -121.318940 °	37.815658 ° -121.318940 °	569
18	9.99	10.00	Supplemental	DWR Erosion Survey	WS	C	Inspector Comments: 08/23/2011: The repaired site shows no sign of new erosion activity. Vegetation visible on the site. 9/07/2010: Site has been repaired by placing shot rock as revetment. Site was previously rated "M". 9/28/2009: A 50 feet section of the lower slump has slumped just above existing rip rap; there is also a rip rap protection along the levee toe. [2011 Site ID:RD0017U02RM52.8]	37.811165 ° -121.318605 °	37.811165 ° -121.318605 °	10
19	10.64	10.68	Supplemental	DWR Erosion Survey	WS	C	Inspector Comments: 08/23/2011: The repaired site shows no sign of new erosion activity. Vegetation and trees visible on the site. 09/07/2010: Site appears to have been repaired by placing shot rock revetment on the lower slope. Some emergent vegetation at the lower slope. Site was previously rated "U". 08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO. 9/29/2009: No major change observed; erosion site is immediately upstream of a rehabilitation site; recommend annual monitoring of site, per Critical Erosion Sites Evaluation 2008 Report; note site # is the same as RM53.7; previously rated "U". 20089: Observed to be caused by wave-wash erosion. 2007: Visited site 06/07/2007; site could be combined with Site 32. [2011 Site ID:RD0017U02RM53.54]	37.805740 ° -121.324240 °	37.805740 ° -121.324240 °	12
20	13.73	13.73	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.775730 ° -121.298943 °	37.775730 ° -121.298943 °	570
21	14.02	14.26	Earthen Levee	Animal Control	WS	W	Exterminate rodents and backfill and compact or grout burrows.	37.774285 ° -121.295703 °	37.773138 ° -121.291763 °	37
22	14.04	14.44	Earthen Levee	Animal Control	LS	W	Exterminate rodents and backfill and compact or grout burrows.	37.774262 ° -121.295305 °	37.772163 ° -121.289295 °	38

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**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.45	10/24/2011 10/24/2011	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	4.28
End Levee Mile	4.32
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Grape vines on landside slope from LM 4.28 to 4.32	
richard_f_20111014_734.jpg	



Levee Mile Report Line	6
Start Levee Mile	4.28
End Levee Mile	4.32
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at grape vines on landside slope	
richard_f_20111027_331.jpg	



Levee Mile Report Line	6
Start Levee Mile	4.28
End Levee Mile	4.32
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at landscaping with grape vines on landside slope	
richard_f_20111027_332.jpg	

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**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.45	10/24/2011 10/24/2011	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	4.28
End Levee Mile	4.32
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at dense landscaping on landside slope.

richard\_f\_20111027\_333.jpg



Levee Mile Report Line	7
Start Levee Mile	4.42
End Levee Mile	4.44
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at ground cover on landside slope.

richard\_f\_20111027\_334.jpg



Levee Mile Report Line	7
Start Levee Mile	4.42
End Levee Mile	4.44
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at landscaping and boat dock on waterside slope and channel.

richard\_f\_20111027\_335.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

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**Reclamation District No. 0017 Mossdale**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.45	10/24/2011 10/24/2011	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	5.62
End Levee Mile	5.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at overgrown landscaping on waterside slope.

richard\_f\_20111027\_336.jpg



Levee Mile Report Line	12
Start Levee Mile	5.62
End Levee Mile	5.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at landscaping on waterside slope.

richard\_f\_20111027\_337.jpg



Levee Mile Report Line	15
Start Levee Mile	7.67
End Levee Mile	7.69
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Elderberry blocking view of landside slope and toe from LM 7.67 to 7.69

richard\_f\_20111014\_735.jpg



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